

# New at the 2015 AIChE® Annual Meeting



New programming. New ideas. New opportunities to focus on innovation and your professional growth. This year's Annual Meeting is all about enhancing your conference experience and broadening your perspectives, whether you're a first-time attendee or veteran.

NEW



## Topical Conferences

### Chemical Engineers in Medicine

#### HIGHLIGHTS:

- Explore the contributions of chemical engineers that are changing the way tissue engineering constructs are designed, produced and implemented.
- Delve into the development and implementation of medical devices, and the development and commercialization of diagnostics, treatments and theranostics.
- Learn about advances in nanotechnology in medicine and drug delivery, regenerative medicine, modeling, systems biology and bioinformatics.
- Discuss the possibilities for innovation that arise when chemical engineers and medical professionals work together.

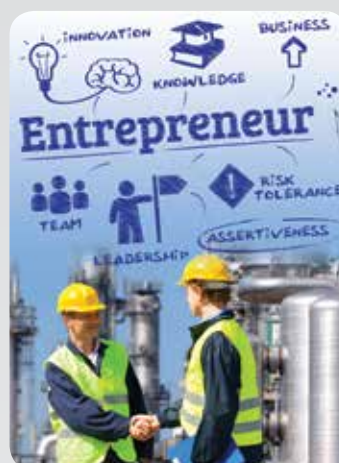


### Entrepreneurial Chemical Engineering

(Sponsored by CIEE, the Management Division, and the ChemE & the Law Forum of AIChE®)

#### HIGHLIGHTS:

- Gain an introduction to what a chemical engineering entrepreneurial effort is while learning how to "entrepreneur".
- Identify the practical aspects of being an entrepreneur, including tools and methods for developing an idea into a business based on chemical engineering technology.
- Get inspired by stories of how innovative entrepreneurs are coming up with new ways to change the world around them.
- Join us for a session on chemical engineering applications that have revolutionized skiing and snowboarding, including mass and heat transport to the equipment and biological mechanisms.



[www.aiche.org/annual](http://www.aiche.org/annual)

NEW

## ▶ Panels

## Graduate Student Education Panel

Monday, November 9

11:15 AM – 1:00 PM

Salt Palace Convention Center, Ballroom A/C

Research universities are encouraged to bring in research grants and produce PhDs. Explore whether the growth in industrial research has kept pace — and whether the vision of research, graduate training and innovation is being realized.

Panelists include:

- Gayle Gibson, Director, Engineering, DuPont
- Joe Helble, Dean, Thayer School of Engineering, Dartmouth College
- Pramod Khargonekar, Assistant Director, Directorate for Engineering, National Science Foundation
- Phil Westmoreland, Professor, North Carolina State University



## Understanding the Brain: A Chemical Engineering Perspective

Tuesday, November 10

12:30 PM – 3:00 PM

Salt Palace Convention Center, Ballroom A/C

Examine the chemical engineer's role in comprehending brain structure and function, along with opportunities to carry out this research.

Panelists include:

- Shu Liu, Professor of Biomedical Engineering, Northwestern University
- Rajakkannu Mutharasan, Program Director – CBET, National Science Foundation
- Amina Qutub, Assistant Professor of Bioengineering, Rice University
- Thanassis Sambanis, Professor, Georgia Institute of Technology
- Mikhail Shapiro, Assistant Professor of Chemical Engineering, California Institute of Technology
- Rajanikanth Vadigepalli, Associate Professor, Thomas Jefferson University



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NEW



## Chemical Engineers Impacting Society Sessions

### Critical Public Policy Issues for Every ChemE

Sunday, November 8

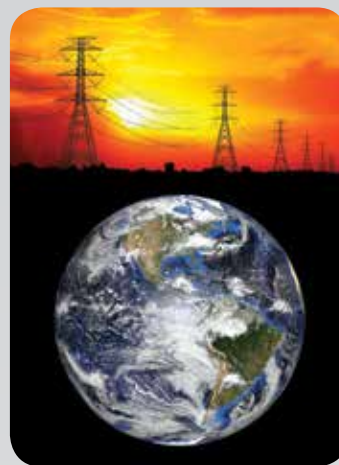
3:30 PM – 6:00 PM

Salt Palace Convention Center, 250E

Hear leaders of AIChE's Public Affairs & Information Committee (PAIC) and invited experts discuss three critical public policy issues in need of even more involvement by chemical engineers:

- The energy/water/food nexus
- Climate change and carbon management
- Advanced manufacturing

In addition, discuss how chemical engineers can effectively impact policy making.



### Engineering Diversity and Inclusion: Moving Forward

Tuesday, November 10

3:15 PM – 5:45 PM

Marriott, Deer Valley I/II

Join AIChE leaders in this diversity summit. Learn about significant new AIChE diversity and inclusion initiatives, as well as best practices from representatives of leading companies, universities and societies advancing the interests of underrepresented and under-served constituencies.



[www.aiche.org/annual](http://www.aiche.org/annual)

NEW

▶ Have a Little Free Time?  
Don't Miss These Special Workshops.

## Take an in-depth look at new offerings at Exhibitor Workshops.

Get even more out of your time at the AIChE Annual Meeting. Exhibitor Workshops let you learn more about new products and services.

### 2 Exhibitor Workshops Scheduled

#### COMSOL: From Reaction Kinetics to Modelling of Nonideal Reactors

Monday, November 9  
3:15 PM – 5:45 PM  
Salt Palace Convention Center, Ballroom G

#### Wiley: A Celebration of Elementary Principles of Chemical Processes, 4<sup>th</sup> Edition

Monday, November 9  
4:30 PM – 5:45 PM  
Salt Palace Convention Center, 255F



### Sponsored Workshop Focuses on Advanced Manufacturing

This workshop provides high-quality, technical information on this issue of increasing importance to chemical engineers.

#### Idaho National Laboratory: Advanced Manufacturing Group

Thursday, November 12  
9:30 AM – 2:00 PM  
Salt Palace Convention Center, 250D

Learn more about new products and services.  
Attend an Exhibitor or Sponsored Workshop.

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engineering  
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THE POWER TO BE CERTAIN

<b>Property Key</b>	<b>SPCC</b> = Salt Palace Convention Center <b>Marriott</b> = Marriott Downtown at City Creek <b>Hilton</b> = Hilton Salt Lake City Center
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02 - Separations Division (continued)					
Monday	3:15 PM	237	Undergraduate Research Forum III: Classical Chemical Engineering/Other Special Topics*	SPCC	Ballroom H
Tuesday	12:30 PM	353	Honorary Session for Dibakar Bhattacharyya I*	SPCC	155C
Tuesday	3:15 PM	404	Honorary Session for Dibakar Bhattacharyya II*	SPCC	155C
Tuesday	3:15 PM	405	Honorary Session for Edwin N. Lightfoot	SPCC	155B
Tuesday	3:15 PM	418	Novel Catalytic and Separation Process Based on Ionic Liquids*	SPCC	257A
Wednesday	12:30 PM	531	Fluid Particle Separation in Energy, Water and Environmental Systems*	SPCC	252A/B
Thursday	12:30 PM	716	Unconventional Technologies for CO <sub>2</sub> Capture, Conversion and Utilization*	SPCC	257A
Thursday	3:15 PM	729	Conversion of Solid Wastes to Energy and/or Product*	SPCC	257A

02A - Distillation and Absorption					
Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	152	Membrane Distillation and Membrane Contactors*	SPCC	155C
Tuesday	8:30 AM	283	Distillation Honors: Dr. Bruce Eldridge	SPCC	155B
Tuesday	12:30 PM	325	Advances in Distillation	SPCC	155B
Wednesday	8:30 AM	446	Advances in Distillation Modeling and Control	SPCC	155B
Wednesday	12:30 PM	523	Distilling a Greener Future	SPCC	155B
Wednesday	3:15 PM	567	Advances in Absorption	SPCC	155B



## Northwestern Law

# Master of Science in Law

The Master of Science in Law program is designed especially for engineers and scientists who have an interest in careers at the intersection of law, business, and science/technology. The one-year MSL provides practical, focused, business-centered legal training in Business Law & Entrepreneurship; Intellectual Property & Patent Design; and Regulatory Analysis & Strategy. The program includes classes in Business Formation & Structure; Business Strategy & Frameworks; Entrepreneurship Law; Entrepreneurship Lab; Entrepreneurial Finance & Venture Capital; IP Valuation; IP Insurance; Standard Setting; and more.

*Currently accepting applications for Fall 2016  
Full- and part-time options available*

[www.law.northwestern.edu/msl](http://www.law.northwestern.edu/msl)



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02D - Membrane-Based Separations (continued)					
Wednesday	12:30 PM	541	Membranes for Water Treatment Applications II	SPCC	155F
Wednesday	3:15 PM	588	Fuel Cell Membranes	SPCC	155C
Wednesday	3:15 PM	595	Membrane Formation	SPCC	155D
Wednesday	3:15 PM	596	Membranes for Water Treatment Applications III	SPCC	155F
Thursday	8:30 AM	650	Membranes for Gas Separations I	SPCC	155B
Thursday	8:30 AM	651	Membranes for Water Treatment Applications IV	SPCC	155F
Thursday	8:30 AM	653	Modeling Transport in Membrane Processes	SPCC	155C
Thursday	12:30 PM	679	Bioinspired Membranes and Membrane Processes	SPCC	155C
Thursday	12:30 PM	695	Membranes for Forward Osmosis and Pressure Retarded Osmosis	SPCC	155F
Thursday	12:30 PM	696	Membranes for Gas Separations II	SPCC	155B
Thursday	3:15 PM	718	Advanced Surface Engineered Membranes	SPCC	155F
Thursday	3:15 PM	740	Membranes for Gas Separations III	SPCC	155B

02E - Adsorption and Ion Exchange					
Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	7	Adsorbent Materials	SPCC	255D
Sunday	4:00 PM	40	Poster Session: Fundamentals and Applications of Adsorption and Ion Exchange	SPCC	Exhibit Hall 1
Monday	8:30 AM	46	Adsorption and Ion Exchange Plenary I: Honorary Session for Alexander Neimark	SPCC	255D

**OHIO UNIVERSITY'S**  
Center for Electrochemical Engineering Research

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**2015 AIChE Student and National Conference**  
for student recruitment and industrial partnering

Salt Lake City | Salt Palace Convention Center

**November 8**  
**Student Recruitment Fair**

Students: Create intellectual and industrial solutions to global problems

**November 9-11**  
**Technical Exhibit**

Industry: Discover electrochemical approaches to solutions for the chemical industry

**RESEARCH AND DEVELOPMENT CAPABILITIES:**

- Water sustainability
- Energy storage and conversion
- Multi-scale modeling
- Advanced materials and chemical synthesis

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